**Session 2- Line and Angle Relationship**

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| Time | Agenda | Vocab | Resources |
| 4:00 | • Welcome    • Go over homework & questions |  |  |
| 4:15 | **Line and Angle Relationship**   * Have participants define the following with a partner. After defining share definition and discuss any questions or differences in definitions.  1. Line 2. angle 3. perpendicular 4. parallel 5. congruent 6. degree 7. postulate 8. theorem   **Angle Activity with the Angle Explorers.** Beckmann Activity Book pg 236 10D. |  | Brass Fasteners  Cardboard Strips |
| 5:00 | **Parallel and perpendicular lines- Connection to Algebra** |  | Par & Per Lines |
| 5:50 | **BREAK** |  |  |
| 6:00 | **Three facts about angles produced by configuration of Lines**   1. 2 lines meeting in a plane 2. Parallel lines cut by a third line (Parallel Postulate) The Parallel Postulate will be studied in depth in Lesson 4! 3. 3 lines forming a triangle  * Read the three facts to the participants and have them see if they can draw the lines from the description. Then, have them look on page 434 in Beckmann to see if their illustrations match. Discuss any questions. Be brief because we will go into each in depth later in the lesson.   This info is found in BECKMANN Hardback pp434-435 |  |  |
| 6:15 | **Angles that Sum to a Straight Angle**   * Have participants read the paragraph between 10F & 10G that starts The third key fact… in Beckmann Hardcover pg 435. Perhaps pose the question…..WHY do they always add up to 180 degrees? * **ACTIVITY:** Beckmann Activity Book pg 238, 10G: Seeing That the Angles in a Triangle Add to 180 * **ACTIVITY:** Beckmann Activity Book pg 242 pg 10J**:** Explaining Why the Angles in a triangle Add to 180 by Walking and Turning. | Triangles | Ruler  Scissors |
| 7:00 | **Vertical Angles**   * Give the participants the Angles sheet and have them work through it with a team of people using their textbooks, internet or other resources. * Reflect on the activity by discussing definitions and the way you remember the differences in them. | Supplementary  Complementary  Vertical Angles | Angles Sheet |
| 7:30 | **Real World Application**:  Angles and Phenomena in the World Beckmann Hardback pg 441-443  Beckmann Activity Book has multiple activities that apply  10 M- 10 Q pp246-252 |  |  |
| 7:50 | Homework:  Reflection Journal  Reading: Beckmann Hardback 453-457 |  |  |